MF10 Wireless Router

Fixed Wireless Adapter

User Manual

LEGAL INFORMATION

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WELCOME

Thank you for choosing the ZTE MF10 Wireless Router (hereinafter referred to as "router"). The Wireless Router comprises two parts, one is a MF10 Fixed Wireless Adapter, and the other is a USB modem. The router supports Internet service, and offers you the connection to the Internet with LAN or WLAN.

Notes:

When you only buy the MF10 Fixed Wireless Adapter, if you want to enjoy the Internet service，you must prepare a USB modem which supports internet service.

To get more information from your router and to keep it in the best condition， please read this manual carefully.

The pictures, symbols and contents in this manual are for reference only. They might not be completely identical with your router. ZTE operates a policy of continuous development. We reserve the right to update the technical specifications in this document at any time without prior notice.

Glossary

- AC: Alternating Current
- APN: Access Point Name
- DC: Direct Current
- DHCP: Dynamic Host Control Protocol
- DNS: Domain Name System (or Service or Server)
- EDGE: Enhanced Data GSM Evolution
- Ethernet: A frame-based computer networking technology for local area networks (LANs)
- GSM: Global System for Mobile Communications
- GPRS: General Packet Radio Service
- HSDPA: High Speed Downlink Packet Access
- HSUPA: High Speed Uplink Packet Access
- IP: Internet Protocol
- LAN: Local Area Network
- LED: Light - Emitting Diode
- MHz: Megahertz
- PDP: Packet Data Protocol
- PIN: Personal Identification Number
- PPP: Point to Point Protocol
- PUK: PIN Unlocking Key
- UPNP: Universal Plug and Play
- WCDMA: Wideband CDMA (Code-Division Multiple Access)
- WEP: Wired Equivalent Privacy
- Wi-Fi：Wireless Fidelity
- WLAN: Wireless LAN

- WPA-PSK: Wi-Fi Protected Access–PreShared Key
- WiMAX: Worldwide Interoperability for Microwave Access
- WPS: Wi-Fi Protected Setup

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Chapter 1

General Information

Safety Precautions

- Some electronic devices may be susceptible to electromagnetic interference. Locate the router away from TV set, radio and other electronic equipment to avoid electromagnetic interference.
- The router may interfere with medical devices like hearing aids and pacemakers. Consult a physician or the manufacturer of the medical device before using the router.
- Please keep yourself at least 20 centimeters away from router.
- Do not use your router in dangerous environments such as oil terminals or chemical factories where there are explosive gases or explosive products being processed.
- Please use original accessories or accessories that are authorized by ZTE. Unauthorized accessories may affect the router performance, damage the router or cause danger to you.
- Do not attempt to dismantle the router. There are no user serviceable parts.
- Do not allow the router or accessories to come into contact with liquid or moisture at any time. Do not immerse the router in any liquid.
- Do not place objects on top of the router. This may lead to overheating of the device.
- The device must be placed in ventilation environment for use.
- Do not expose the router to direct sunlight or store it in hot areas. High temperature can shorten the life of electronic devices.
- Do not allow children to play with the router or charger.

Cleaning and Maintaining

- Use an antistatic cloth to clean the router. Do not use chemical or abrasive cleanser as these could

damage the plastic case. Turn off your router before you clean it.

- Use the router within the temperature range of -10°C ~ +55°C, and the storage temperature range is -20°C ~ +60°C. The humidity range is 5%~95%.
- Do not use your router during a thunderstorm. Remove the main power pack from the wall socket.

Limited Warranty

- This warranty does not apply to defects or errors in the Product caused by:

  i. Reasonable Router Appearance Disfiguration.

  ii. User's failure to follow ZTE's installation, operation or maintenance instructions or procedures.

  iii. User's mishandling, misuse, negligence, or improper installation, disassemble, storage, servicing or operation of the Product.

  iv. Modifications or repairs not made by ZTE or a ZTE-certified individual.

  v. Power failures, surges, fire, flood, accident, actions of third parties or other events outside ZTE's reasonable control.

  vi. Usage of products of third parties, or usage in conjunction with third party products provided that such defects is due to the combined usage.

  vii. Any other cause beyond the range of normal usage for Products. End User shall have no right to reject, return, or receive a refund for any Product from ZTE under the above-mentioned situations.

- This warranty is end user's sole remedy and ZTE's sole liability for defective or nonconforming items, and is in lieu of all other warranties, expressed, implied or statutory, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, unless otherwise required under the mandatory provisions of the law.

Limitation of Liability

ZTE shall not be liable for any loss of profits or indirect, special, incidental or consequential damages resulting from or arising out of or in connection with using of this product, whether or not ZTE had been advised, knew or should have known of the possibility of such damages, including, but not limited to lost profits, interruption of business, cost of capital, cost of substitute facilities or product, or any downtime cost.

Declaration

We, ZTE Corporation, declared that:

• The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

• This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Notes:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/ TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Chapter 2

Getting started

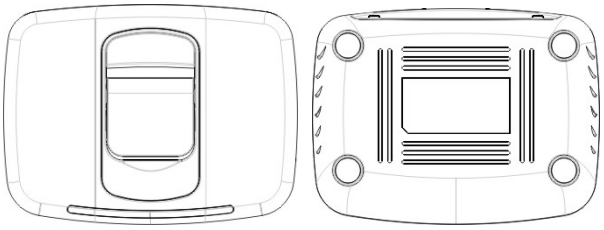
The router operates on the WiMAX network and supports data service.

Parts Supplied

Parts	Quantity
Wireless Router	1
*USB Modem	1
External power adapter	1
User manual	1
Certificate of quality	1

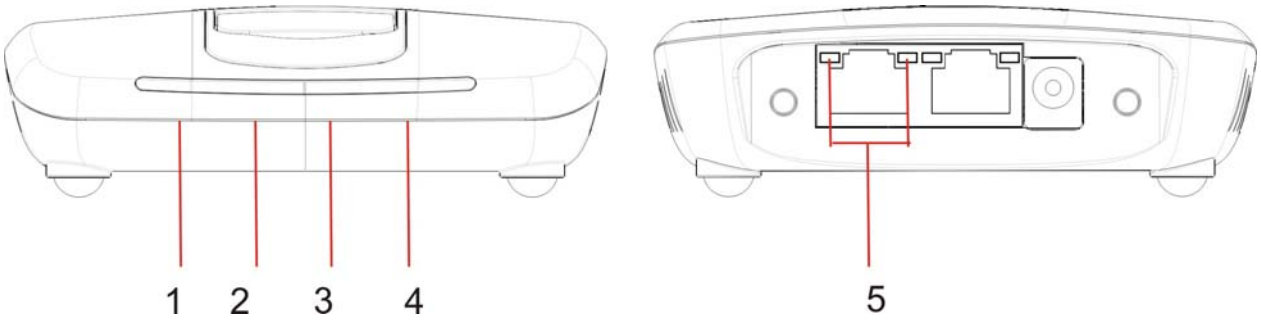
*In this manual, the USB Modem is produced by ZTE.

Appearance



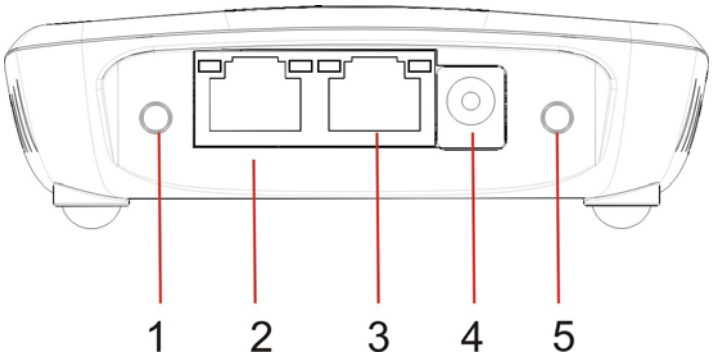
Top Bottom

LED Indicator



Indicator	State	Description
1. POWER	ON	External power supply works normally.
	OFF	External power supply is disconnected or power off.
2. WLAN	ON	WLAN works normally.
	Blinking	Data transmission
	OFF	WLAN works abnormally.
3. PPP	ON	Internet connected
	Blinking	The router attempts to connect Internet.
	OFF	Internet disconnected and not attempt to connect.
4. WPS	ON	WPS authentication is started and available.
	Blinking	WPS authentication is in progress or unavailable.
	OFF	WPS authentication is not started.
5、LAN	Off	Out of Connection
	Solid Green	Connection
	Flashing Green	Data Service Process

Interface Description



1. **WPS**: WPS button is used to start Wi-Fi Protected Setup authentication process.
2. **LAN 1**: Ethernet connections to computer.
3. **LAN 2**: Ethernet connections to computer.
4. **POWER Socket**: Connection to the external power supply.
5. **POWER Switch**: Turn the router ON or OFF. Hold on for 7 seconds to restore the factory default settings.

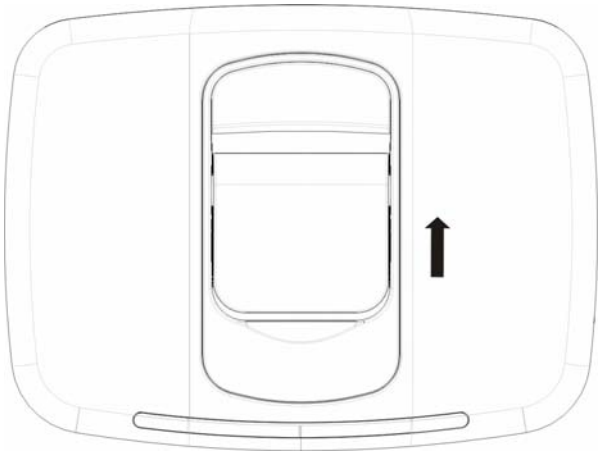
Installation

This section shows you how to install the hardware.

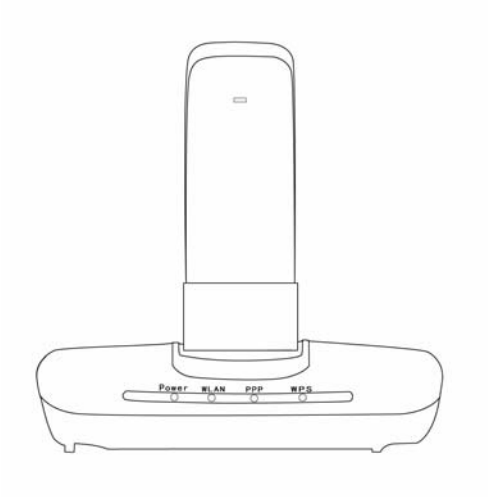
Inserting the modem

Insert the modem into the router.

1. Rotate the front cover.



2. Plug the USB connector into the USB port.



Warning:

Please power off the router and remove the external power adapter before removing or inserting the modem, if not, the router or modem may be damaged.

Connecting computer

Connect your computer to the LAN interface using the Ethernet cable (RJ45).

Notes:

The router will adapt the Ethernet cable style (crossover or straight) automatically.

Connecting the external power

1. Connect the external power adaptor to a standard power outlet.

2. Insert the plug into the socket at the rear of the router.

Switching on your device

1. Turn the power switch on to get started.

Notes:

Do not put anything on the top of the router. Do not lay routers to overlap each other when using.

2. Wait 1~2 minutes after turning the router on before you use the service. The power indicator should be lit on.

Power supply

For normal operation connect the router to the external power adapter. In case of power failure or when there is no available external power supply, the router can not work.

Notes on Service and Coverage

If you cannot get service, make sure that:

- You are in an area which has sufficient network coverage.
- Please wait 1-2 minutes for the modem to initialize, attach to the network and obtain an IP address.

Chapter 3

Internet Access

The router does not require any drivers, and it supports all operating systems with Ethernet LAN capability, such as Windows 2000, XP, Vista, MAC OS X and Linux. The router supports two computers surfing on internet using Ethernet cables at the same time, and also supports Wireless LAN connection.

Notes:

All the parameter settings in this chapter are just for your reference. Please contact your service provider for detail.

Preparation

Before using the data service, make sure:

• The modem is inserted into the router.

• The Ethernet cable is connected properly.

• The power light is on.

• The PPP light is on.

Web browser requirement:

It is suggested that you use one of these web browsers to connect to the internet.

• IE 6.0 or above

• Netscape version 9.0

Settings

Do not change any settings unless instructed by your service provider. To make changes to your settings you need to disconnect the router from the network. After making changes reboot your router by turn off and on again.

Login

The router can be connected by RJ45 or by Wi-Fi (the SSID is “ZTE Wireless Network”). By either

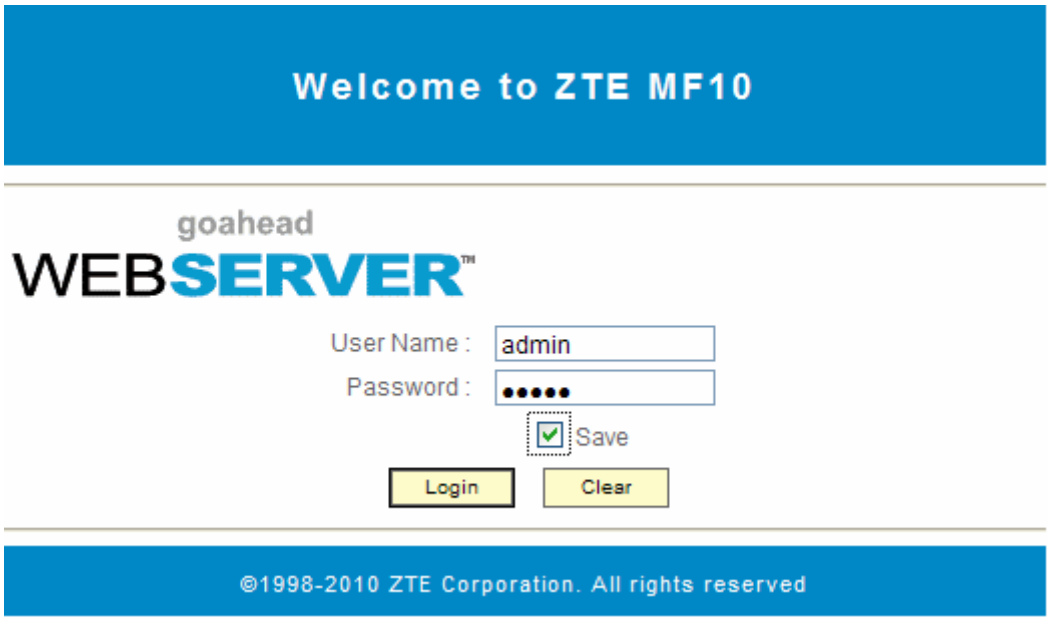
connection mode, you should set to obtain an IP address automatically in the attribution setting of Internet protocol (TCP/IP).

After your computer gets the IP address (like 192.168.0.101) from the router, open a web browser and type “http://192.168.0.1” in the address bar, and then input the username and password to log in.

You can use administrator or user to log in, but user only can view the status of router, the administrator can configure the router, and the default administrator user name and password are as followings:

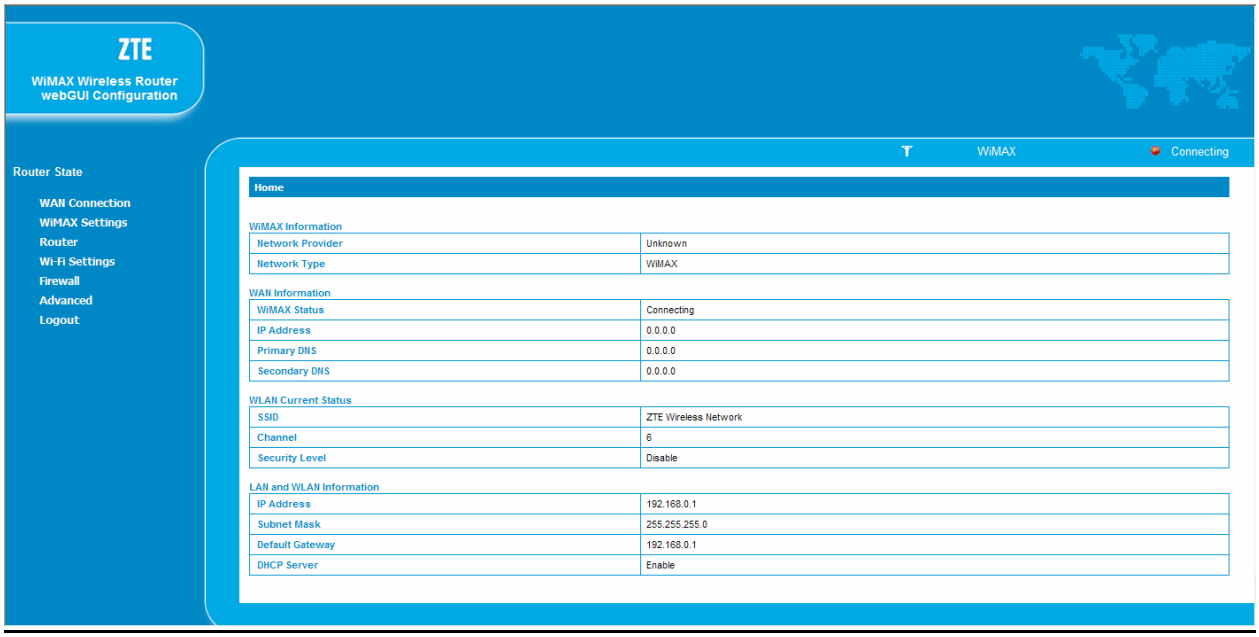
User Name: admin

Password: admin



Click **Login** to log in the router. Check **Save** to let the explorer keep the user name and password.

When you successfully login, the router status web page appears:



The whole page is divided into two parts. Related functions can be executed by operation in the related areas.

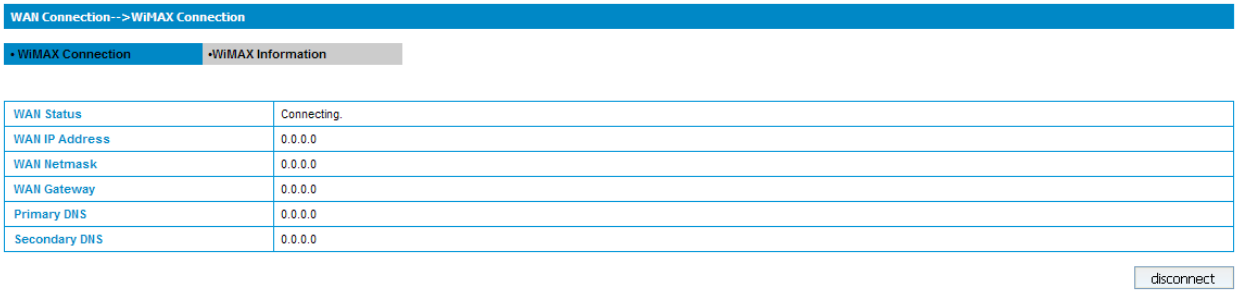
· **Index area**: Show configuration list for your router.

· **Content area**: Show the detail configuration.

WAN Connection

WiMAX Connection

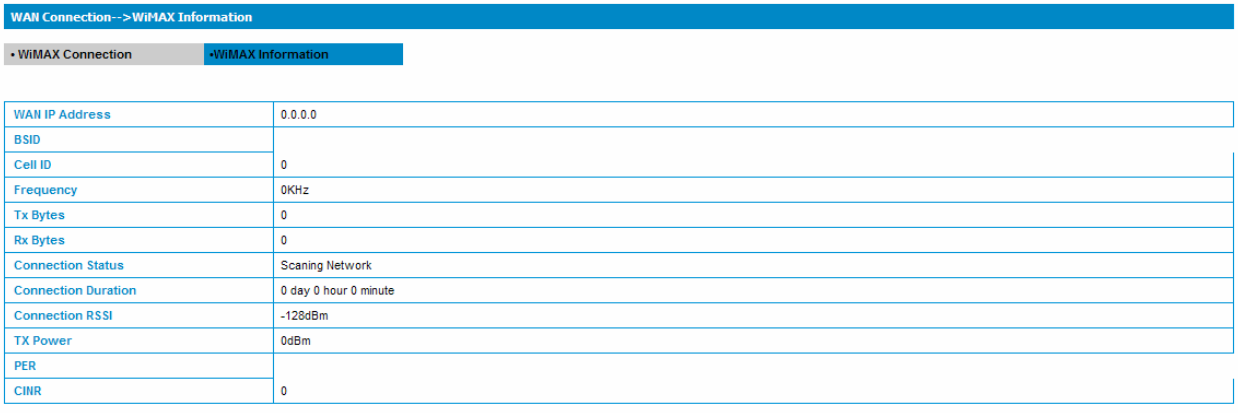
Select **WAN Connection** > **WiMAX Connection**, the WiMAX connection is shown in the following figure:



Click **connect** to connect to the network, or click **disconnect** to disconnect from network.

WiMAX Information

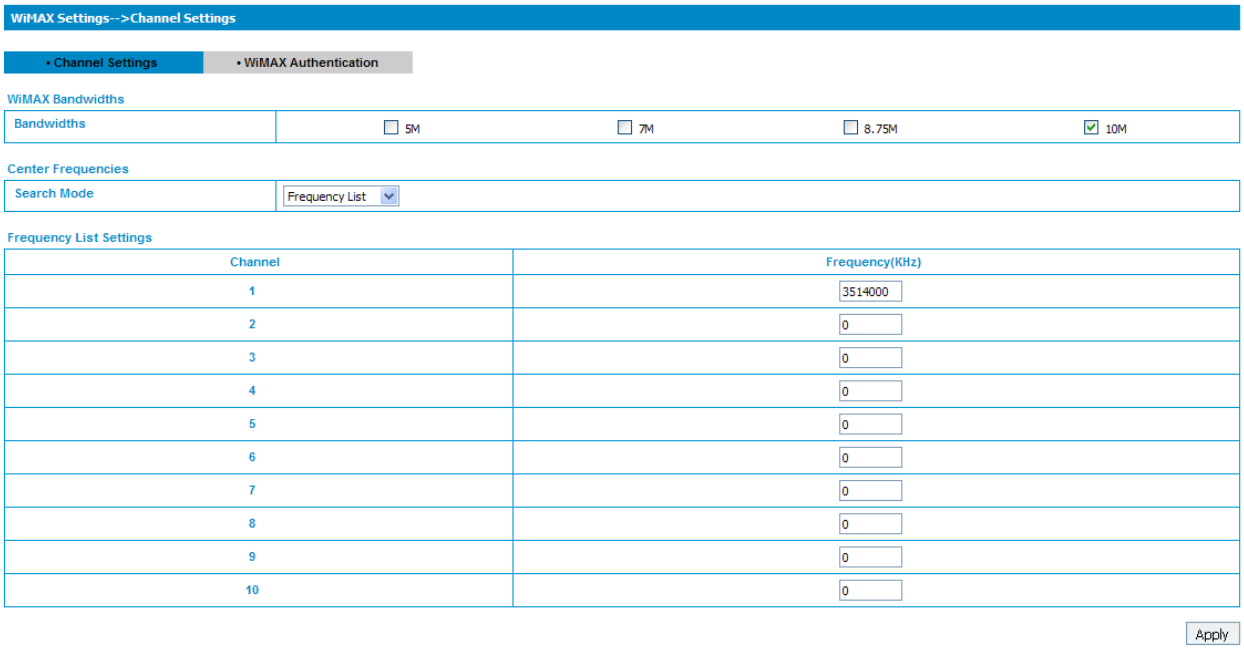
Select **WAN Connection** > **WiMAX Information**, the WiMAX information is shown in the following figure:



WiMAX Settings

Channel Settings

Select **WiMAX Settings** > **Channel Settings**, the 3G wireless information is shown in the following figure:



• **Bandwidths**: Select the bandwidth.

• **Search Mode**: There are two choosing modes: **Frequency List** and **Frequency Band**.

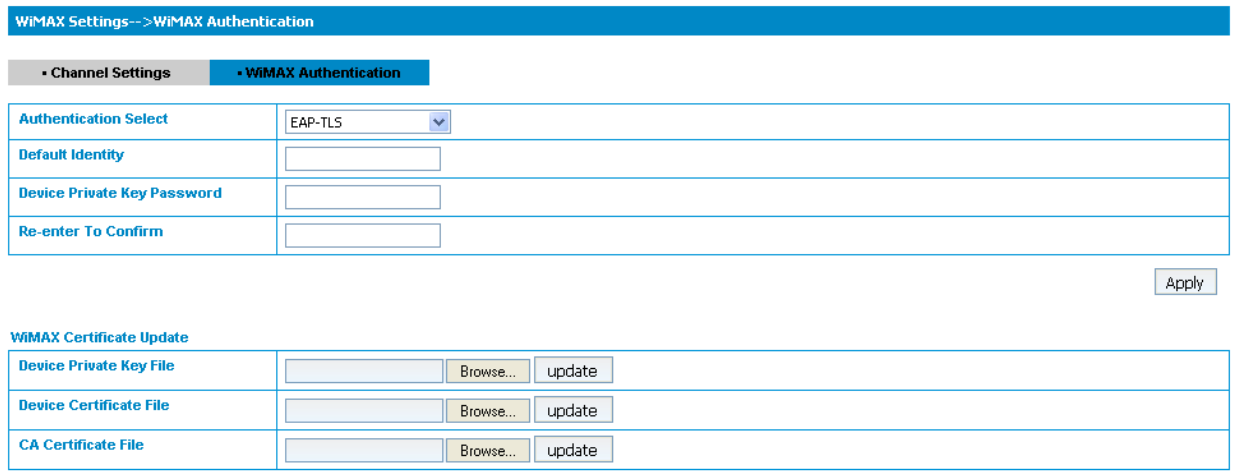
• **Frequency List Settings**: Set the frequency for each channel.

• **Frequency Band Settings**: Set the frequency band for each channel

Click **Apply** to confirm your configuration.

WiMAX Authentication

Select **WiMAX Settings > WiMAX Authentication,** the WiMAX authentication is shown in the following figure:



• **Authentication Select**: There are three options: **EAP-TTLS/MSCHAPv2**, **EAP-TLS** and **EAP-MD5.**

• **Default Identity**: Detailed please consult your service provider.

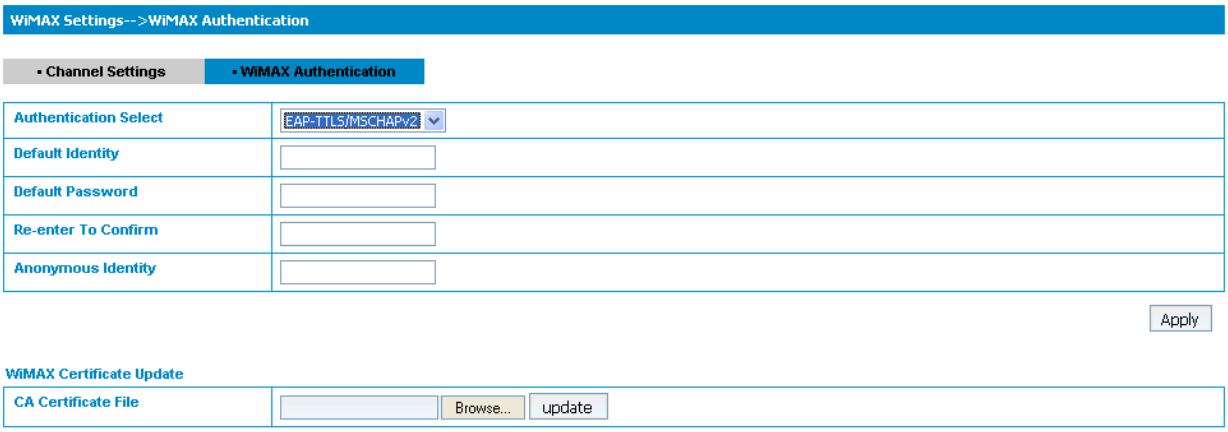
• **Default Password**: Detailed please consult your service provider.

• **Re-enter To Confirm**: Detailed please consult your service provider.

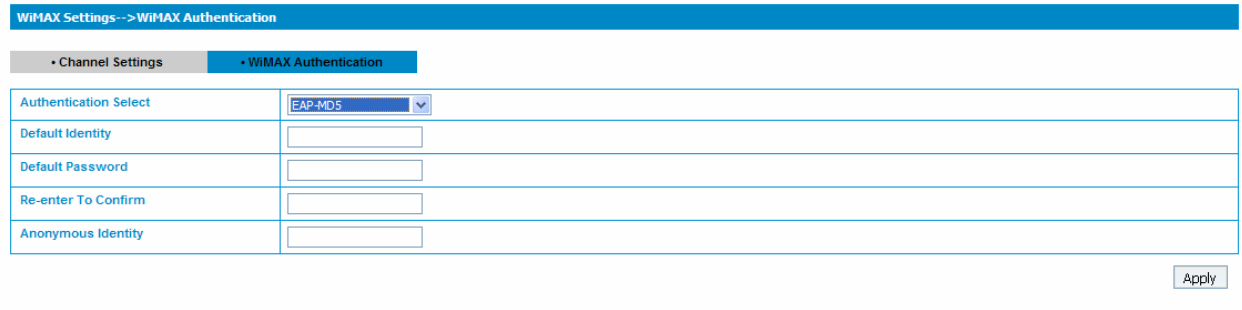
• **WiMAX Certificate Update**: Update the certificate file(s) provided by your service provider.

Click **Apply** to confirm your configuration.

If the Authentication type is **EAP-TTLS/MSCHAPv2**, the parameters are shown in the following figure:



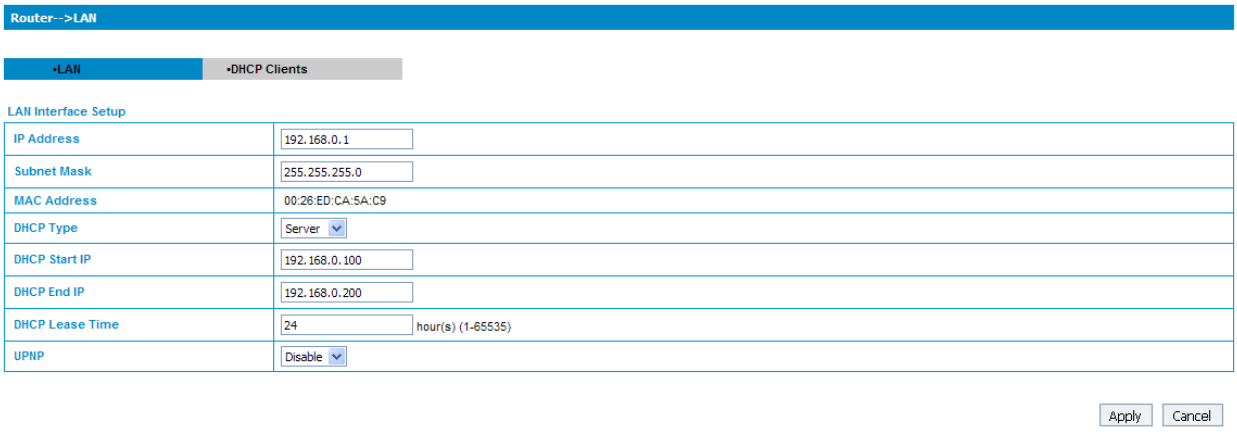
If the Authentication type is **EAP-MD5**, the parameters are shown in the following figure:



Router

LAN

Select **Router > LAN**, the LAN parameters are shown in the following figure:

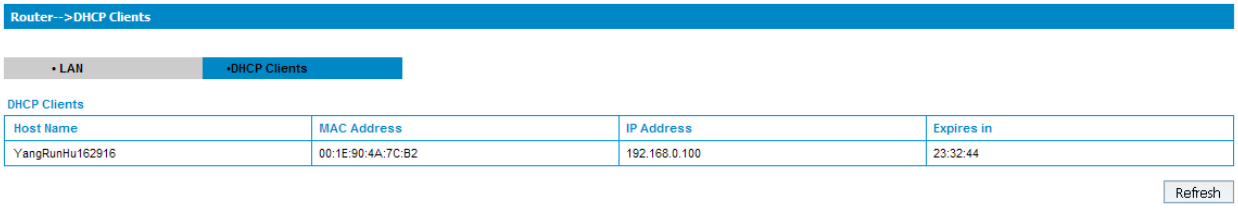


- **IP Address**: LAN IP address of the router.
- **Subnet Mask**: Subnet mask of the router.
- **MAC Address**: MAC address of the LAN interface.
- **DHCP Type**: The router is set up as a DHCP server, which provides IP address in IP pool range for all the computer connected.
- **DHCP Start IP**: Allocate start IP address for IP pool.
- **DHCP End IP**: Allocate end IP address for IP pool.
- **DHCP Lease Time**: Define how long the leased IP address will be expired.
- **UPNP**: Enable UPNP or not.

Click **Apply** to confirm your configuration, or click **Cancel** to cancel your configuration.

DHCP Clients

Select **Router** > **DHCP Clients**, All of the DHCP clients information will be shown in the following figure:

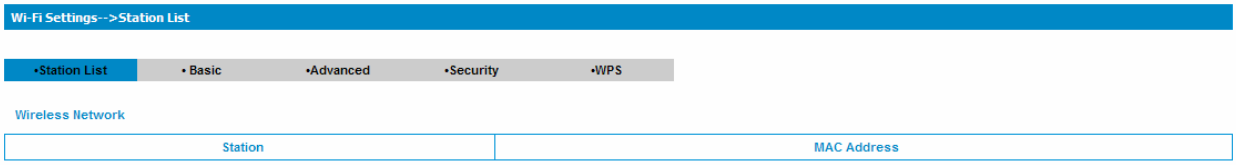


Click **Refresh** to update the information.

Wi-Fi Settings

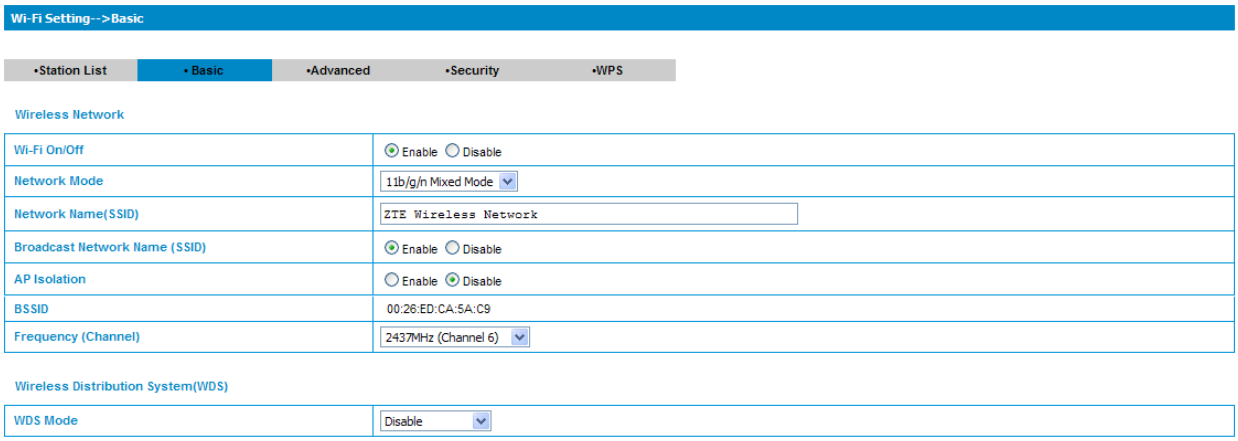
Station list

Select **Wi-Fi Settings** > **Station List**, All of the wireless network stations information will be shown in the following figure:



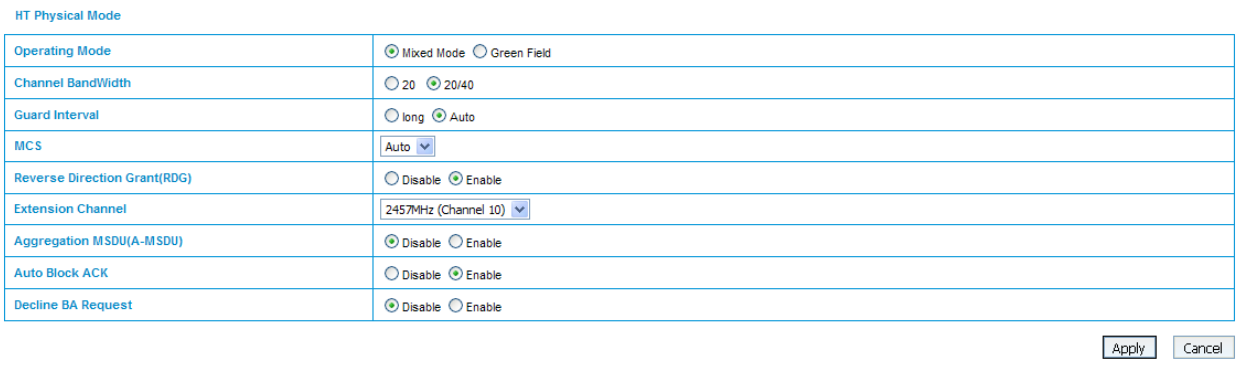
Basic

Select **Wi-Fi Settings** > **Basic**, the wireless network parameters and WDS mode are shown in the following figure:



- **Wi-Fi On/Off**: Select **On** or **Off** to set the WIFI On or Off.
- **Network Mode**: Including 11b/g Mixed Mode, 11b only,11g only and 11b/g/n Mixed Mode.
- **Network Name(SSID)**: Service Set Identifier. Enter a string not more than 32 characters as the name for your wireless local area network(WLAN).
- **Broadcast Network Name(SSID)**: Disable or Enable(Default) this function. The router broadcasts the SSID, and other devices can detect and connect to it by selecting **Enable**. The router disables broadcasting and hides the name of your network by selecting **Disabl**e.
- **AP Isolation:** When **Enabled** is selected, each of your wireless clients will not be able to communicate with each other.
- **BSSID**: Show the MAC address of the Wi-Fi.
- **Frequency(Channel)**: The frequency band in which the WLAN operates. If some channels in your area may have interference from other electronic devices, please choose the clearest channel to optimize the performance and coverage of your wireless network. The default value is **2437MHz (Channel 6)**.
- **WDS Mode**: WDS provides the radio monitoring and management communication. Lazy Mode, Bridge Mode and Repeater Mode are available. The default value is **Disable**.

The HT physical Mode (Only available for 802.11n mode） parameters are shown in the following figure:



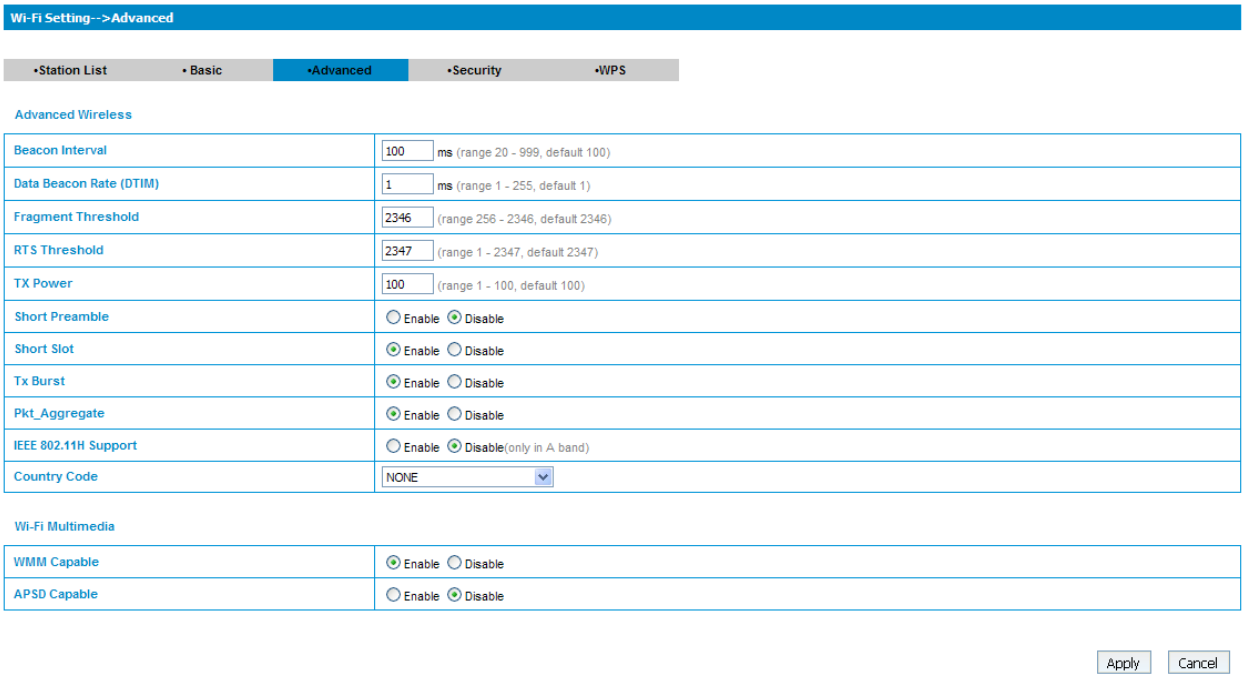
- **Operating Mode**: Set the HT physical operating mode.

- **Channel BandWidth**: Set the HT physical channel bandwidth.
- **Guard Interval**: Set the HT physical guard interval.
- **MCS**: Set fix MCS rate for HT rate.
- **Reverse Direction Grant(RDG)**:Enable **RDG** or not.
- **Extension Channel**: Set extension channel. The extension channel is also able to send and receive data.
- **Aggregation MSDU(A-MSDU)** : Mark to enable Hyper Throughput TX Aggregate MAC Service Data Unit, and clear by selecting **Disable**.
- **Auto Block ACK**: Block ACK(Acknowledge Number) or not during data transferring.
- **Decline BA Request**: Reject peer BA-Request or not.

Click **Apply** to confirm your configuration, or click **Cancel** to cancel your configuration.

Advanced

Select **Wi-Fi Settings** > **Advanced**, the advanced wireless network parameters and Wi-Fi multimedia parameters are shown in the following figure:



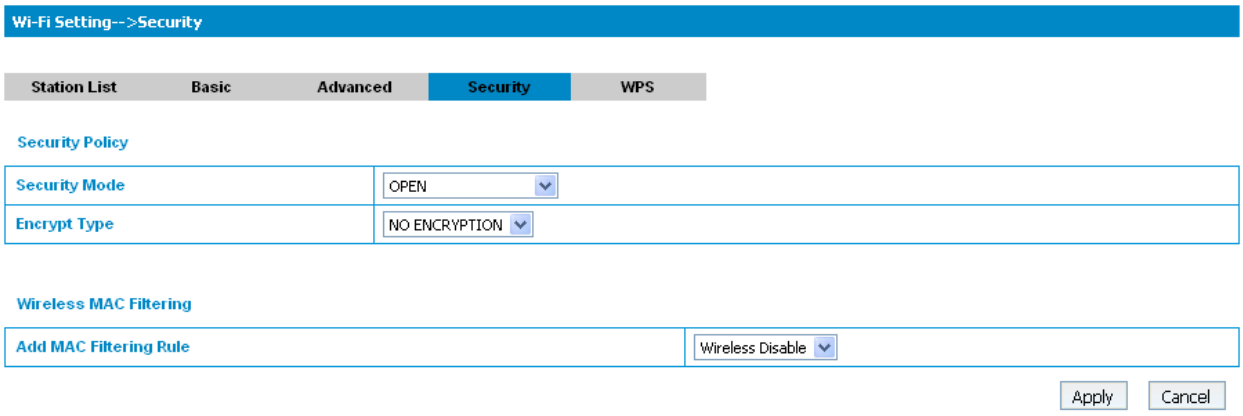
- **Beacon Interval**: The router broadcasts beacon message to announce that it has buffered frames to deliver. The default value is 100 (ms).
- **Data Beacon Rate(DTIM)** :Set the wireless network data beacon rate.
- **Fragment Threshold**: Set the wireless network fragment threshold.

- **RTS Threshold**: Set the wireless network RTS threshold.
- **TX Power**: Set the wireless network TX power.
- **Short Preamble**: Disable short preamble or not.
- **Short Slot**: Enable short slot or not.
- **Tx Burst**: Enable Tx burst or not.
- **Pkt_Aggregate**: Enable packet aggregation or not.
- **IEEE 802.11H Support**: Support IEEE 802.11H or not.
- **Country Code**: Select the desired country.
- **WMM Capable**: Enable Wi-Fi Multimedia(WMM) or not.
- **APSD Capable**: Enable APSD or not.

Click **Apply** to confirm your configuration, or click **Cancel** to cancel your configuration.

Security

Select **Wi-Fi Settings > Security**, the Security parameters and Wireless MAC Filtering parameters are shown in the following figure:



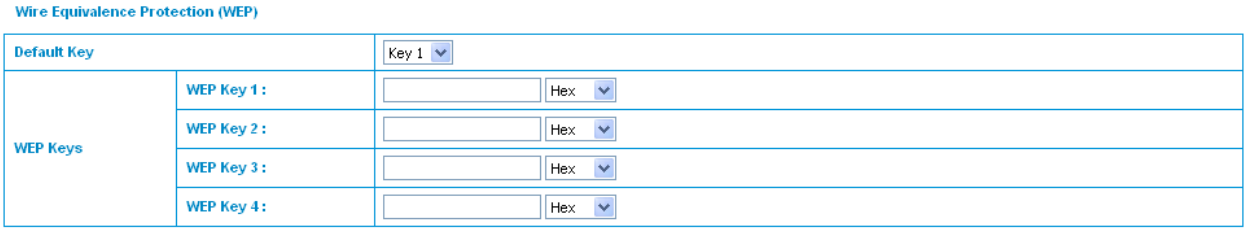
- **Security Mode**: Including **OPEN**, **SHARED**, **WEPAUTO**, **WPA-PSK**, **WPA2-PSK** or **WPA-PSK/WPA2-PSK**.
- **Encrypt Type**: Use WEP Encryption or not.
- **Add MAC Filtering Rule**: Choose the type of MAC filtering. When you select **disable**, the MAC addresses are not used to control network access.

The security modes are described below:

- **Open**: You can authenticate successfully with a SSID, whether it is valid or empty.
- **Shared**: The WLAN clients who have the same WEP key with wireless gateway can pass the authentication and access the wireless network.

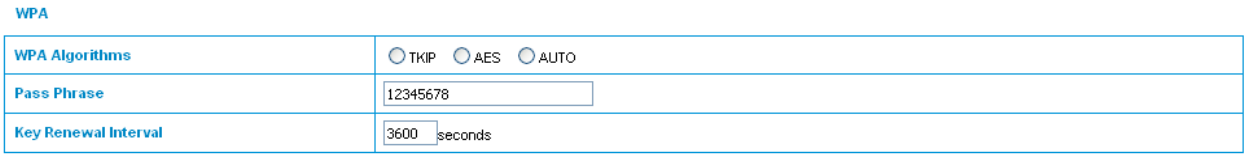
- **WEPAUTO**: Select WEP security automatically.
- **WPA-PSK**: WPA Pre-Shared Key, Enter the Pre-Shared key as a plain text (ASCII) pass-phrase of at least 8 characters.
- **WPA2-PSK**:It is the securer version of WPA with implementation of the 802.11i standard.
- **WPA-PSK/WPA2-PSK**: Apply both the WPS-PSK and WPA2-PSK scheme.

If the Authentication type is **Shared** or **WEPAUTO**, or you select **Open** and set the **Encrypt Type** as **WEP**, the WEP parameters are shown in the following figure.



- **Default Key**: Set the WEP Key as the default.
- **WEP Keys**: At most four keys can be set in the blank. Choose the primary key index. The primary key is the only key in use at a given time. Whatever keys you enter for an access point, you must also enter the same key for the client adapter in the same order. In other words, WEP key 1 on the AP must match WEP key 1 on the client adapter, WEP key 2 on the AP must match WEP key 2 on the client adapter, etc. A WEP is either 10 or 26 hexadecimal digits (0~9,a~f and A~F), either 5 or 13 ASCII characters based on whether you select 64 bits or 128 bits in the Encryption Strength drop-down list.

If the Authentication type is **WPA-PSK** , **WPA2-PSK** or **WPA-PSK/WPA2-PSK** , the WPA parameters are shown in the following figure.



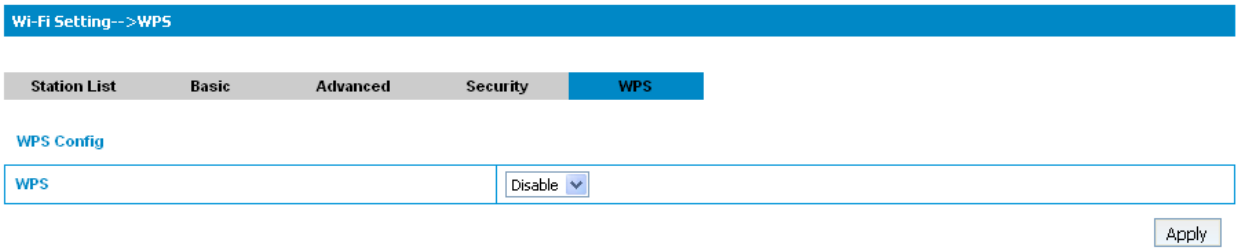
- **WPA Algorithm**: **TKIP**, **AES** or **AUTO**.
- **Pass Phrase**: You can input hexadecimal digits up to 64 characters or input ASCII characters choose a length between 8 characters and 63 characters.
- **Key Renewal Interval**: Define how long the key should be renewed.

Click **Apply** to confirm your configuration, or click **Cancel** to cancel your configuration.

WPS

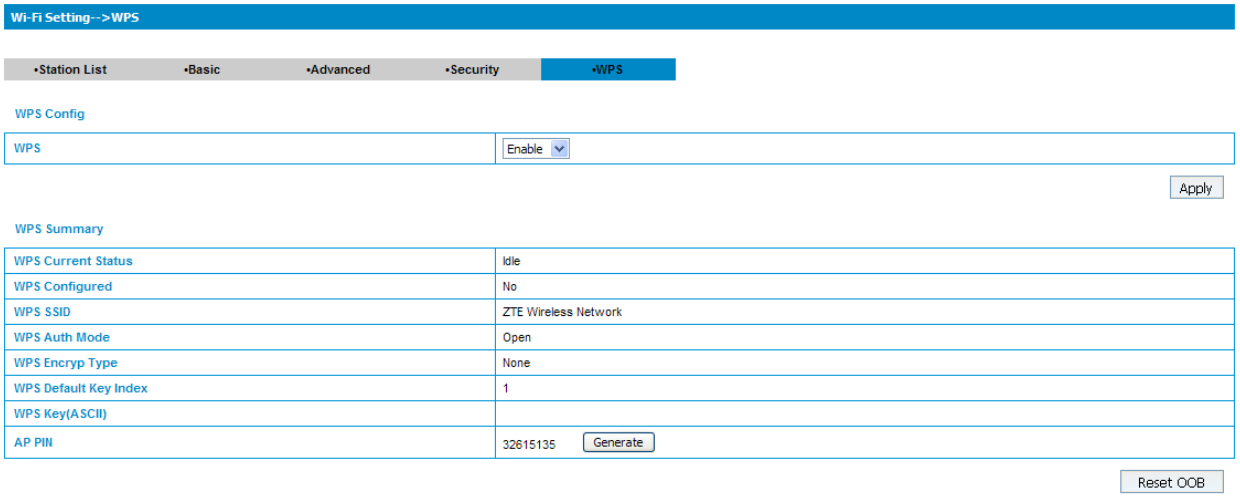
This function is to simplify the security setup of Wi-Fi networks. This Router supports the configuration setup using PIN configuration method or PBC configuration method.

Select **Wi-Fi Settings > WPS**, the WPS configuration is shown in the following figure:



Select **Enable**, and then click **Apply** to configure the details.

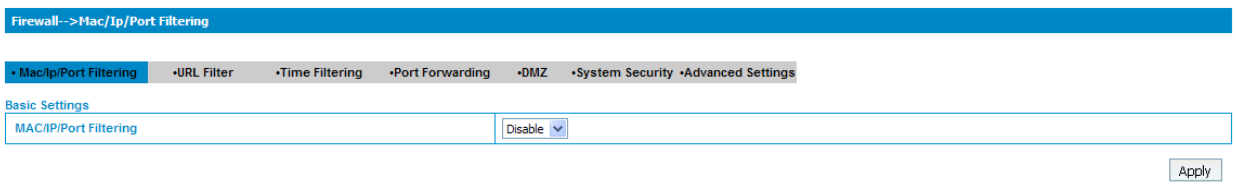
The following figure shows you the current configuration of WPS. Click Reset **OOB** on this page to restore the default value. Click **Generate** on this page to generate a new AP PIN code.



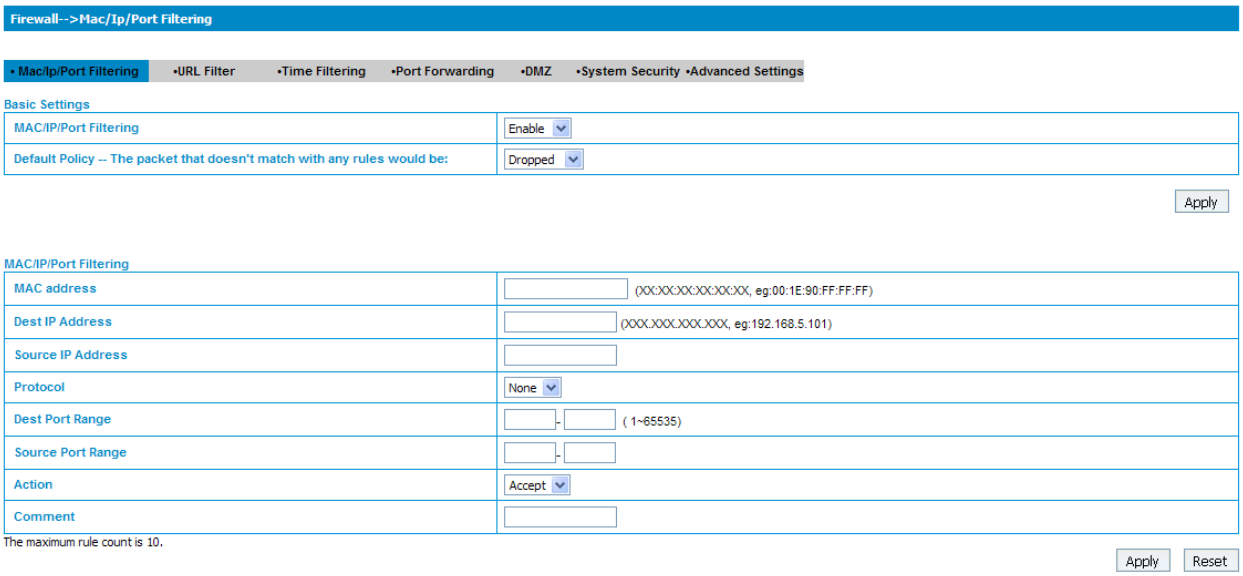
Firewall

MAC/IP/Port Filtering

Select **Firewall > Mac/Ip/Port Filtering**, the Mac/IP/Port Filtering is shown in the following figure:



If you select **Enable**, the filter settings will appear:



• **Default Policy**: Set how to handle the packet if none of the rules matches.

• **MAC address**: Set the MAC address that will be filtered.

• **Dest IP Address**: Set the destination IP address that will be filtered.

• **Source IP Address**: Set the source IP address that will be filtered.

• **Protocol**: Set which protocol will be used for filtering.

• **Dest Port Range**: Set the destination port numbers that will be filtered.

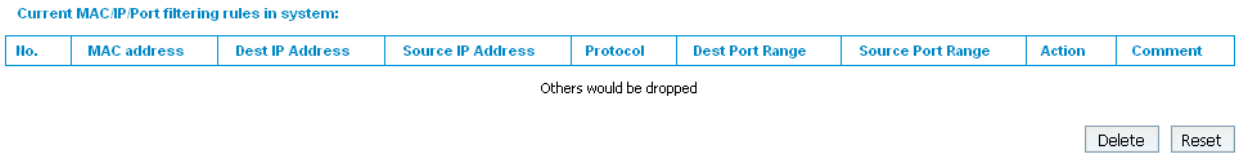
• **Source Port Range**: Set the source port numbers that will be filtered.

• **Action**: Set how to handle the packet if it matches with the rule.

• **Comment**: type comment for the filter settings.

Click **Apply** to confirm your configuration, or click **Reset** to clear your configuration.

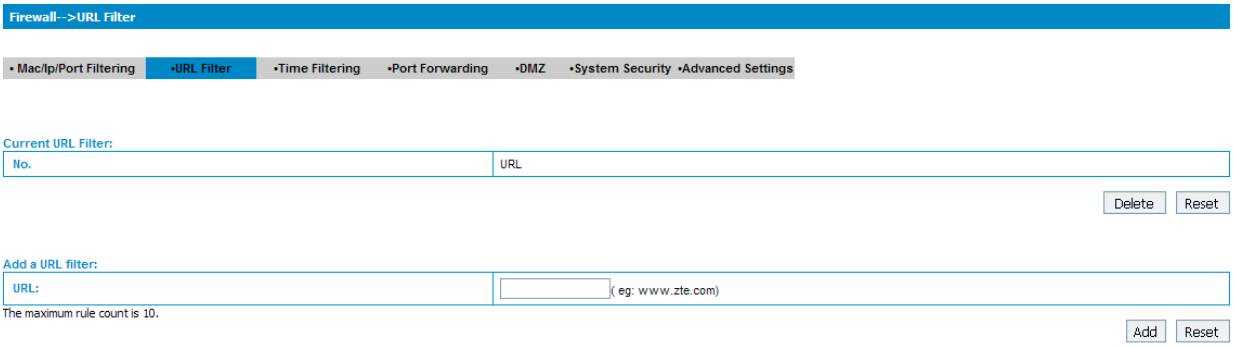
The following figure shows you the current MAC/IP/Port filtering rules in system.



Click **Delete** to delete the selected rules, or click **Reset** to uncheck boxes before all rules.

URL Filter

Select **Firewall > URL Filter**, the URL Filter is shown in the following figure:



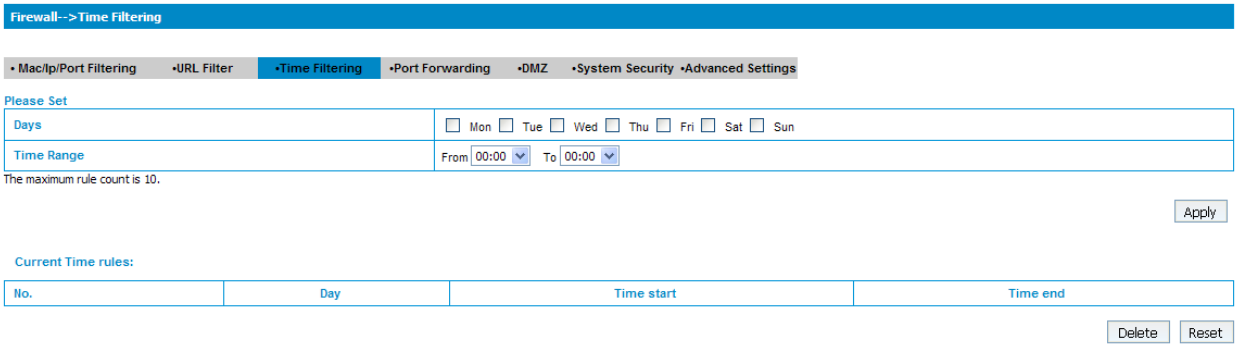
Type URL address, and then click **Add** to add the URL address into the filtering list. The new URL filtering item will be shown in the **Current URL Filter** area.

Click **Reset** within the **Current URL Filter** area to uncheck boxes before all rules.

Click **Reset** within the **ADD a URL filter** area to clear your URL address.

Time Filtering

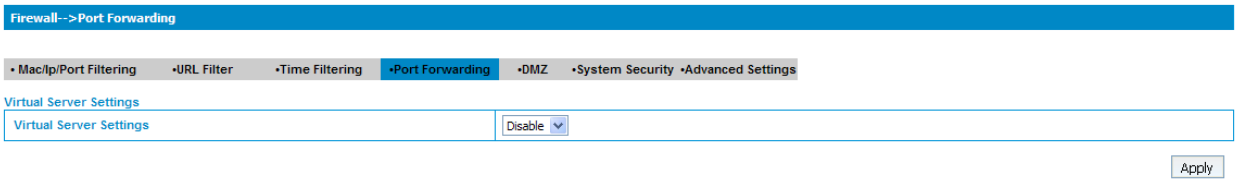
Select **Firewall > Time Filtering**, the time filtering is shown in the following figure:



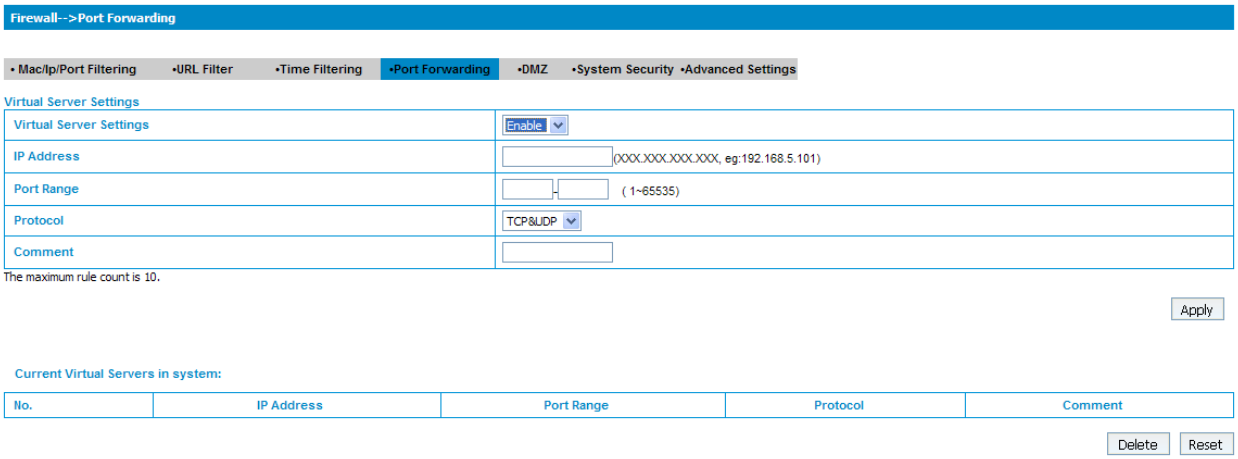
Select **Days** and **Time Range**, and then click **Apply** to add the time rule. The new time rule item will be shown in the **Current Time rules** area. Click **Reset** to uncheck boxes before all rules.

Port Forwarding

Select **Firewall > Port Forwarding**, the port forwarding is shown in the following figure:



If you select **Enable**, the Virtual Server Settings will appear:



• **IP Address**: Set IP address for the hosts

• **Port Range**: Set port numbers for the virtual server.

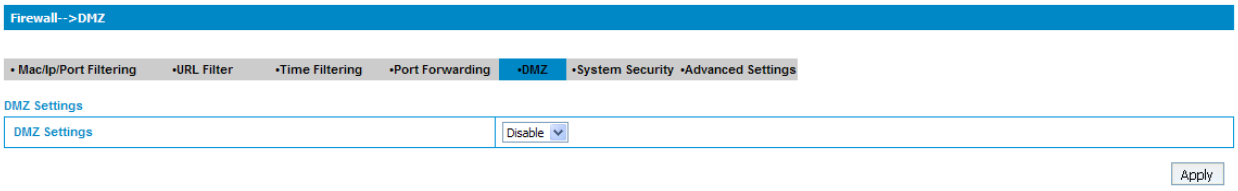
• **Protocol**: Set protocol for the virtual server.

• **Comment**: Type comment for the virtual server settings.

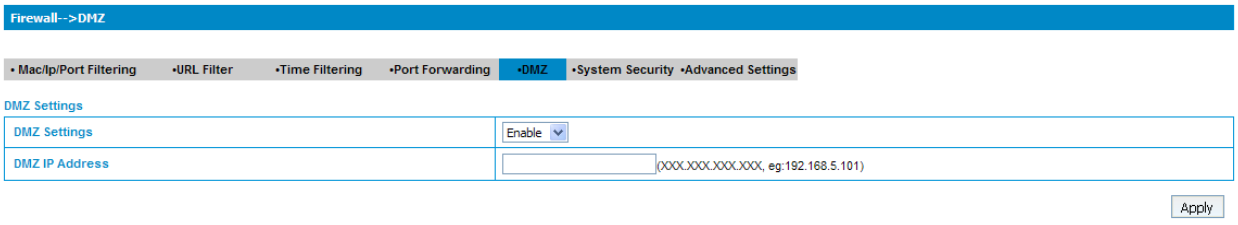
Click **Apply** to confirm your configuration. And the current virtual servers will be shown in the current virtual servers in system area. Click **Reset** to uncheck boxes before all rules.

DMZ

Select **Firewall > DMZ**, the DMZ settings are shown in the following figure:

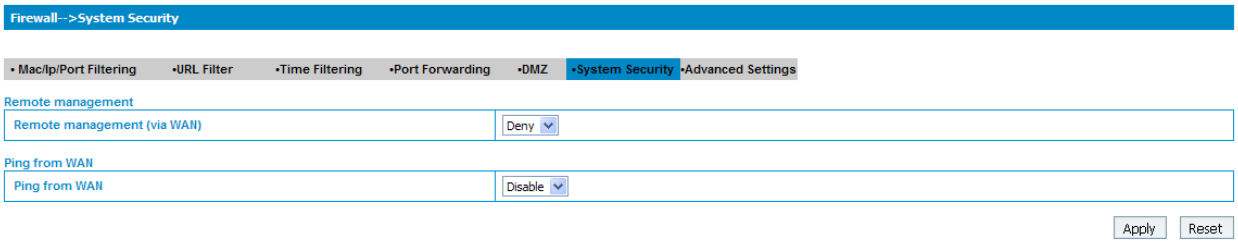


If you select **Enable**, set the DMZ IP address, and then click **Apply** to confirm your configuration.



System Security

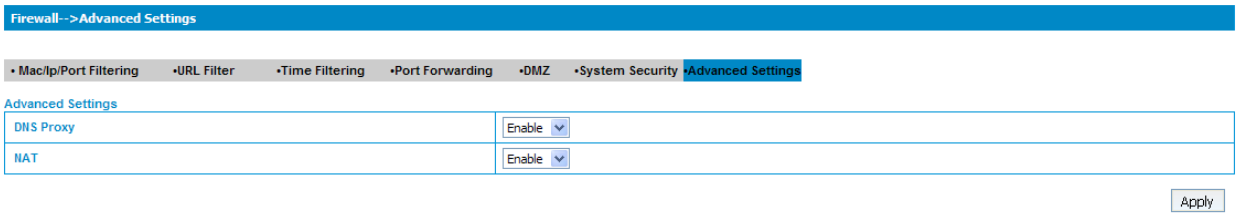
Select **Firewall > System Security**, the system security setting is shown in the following figure:



Allow or **Deny** the remote management function, and **Enable** or **Disable** ping from WAN filter on requirement, and then click **Apply** to confirm your configuration.

Advanced Settings

Select **Firewall > Advanced Settings**, the advanced settings is shown in the following figure:

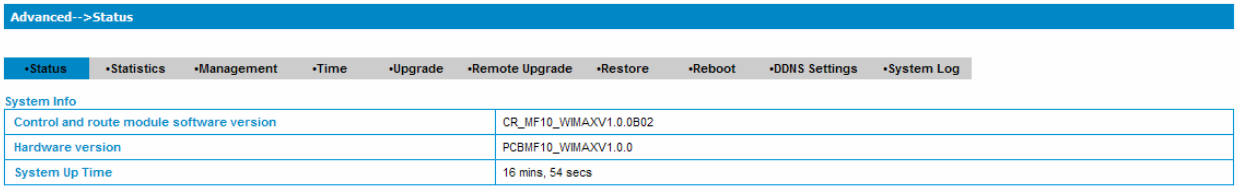


Enable or **Disable** DNS Proxy and NAT function, and then click **Apply** to confirm your configuration.

Advanced

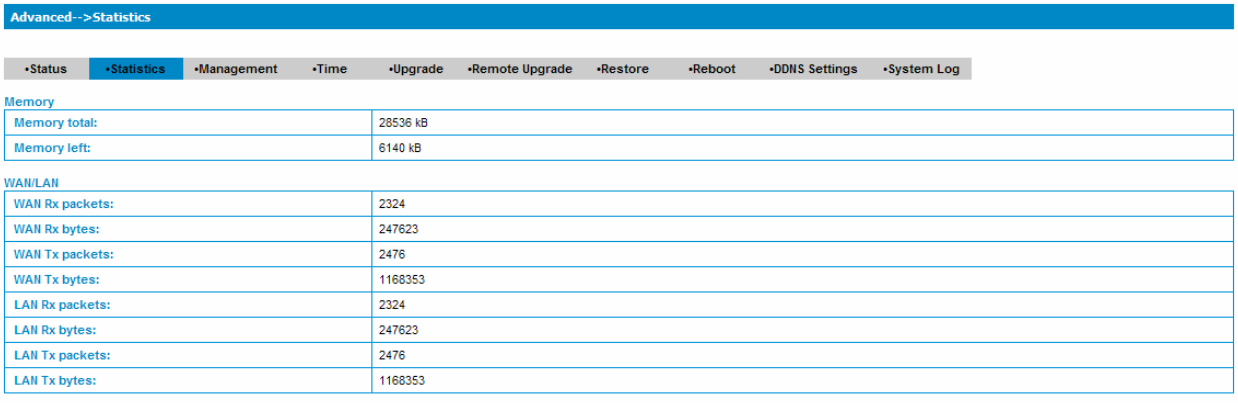
Status

Select **Advanced > Status**, the system information is shown in the following figure:



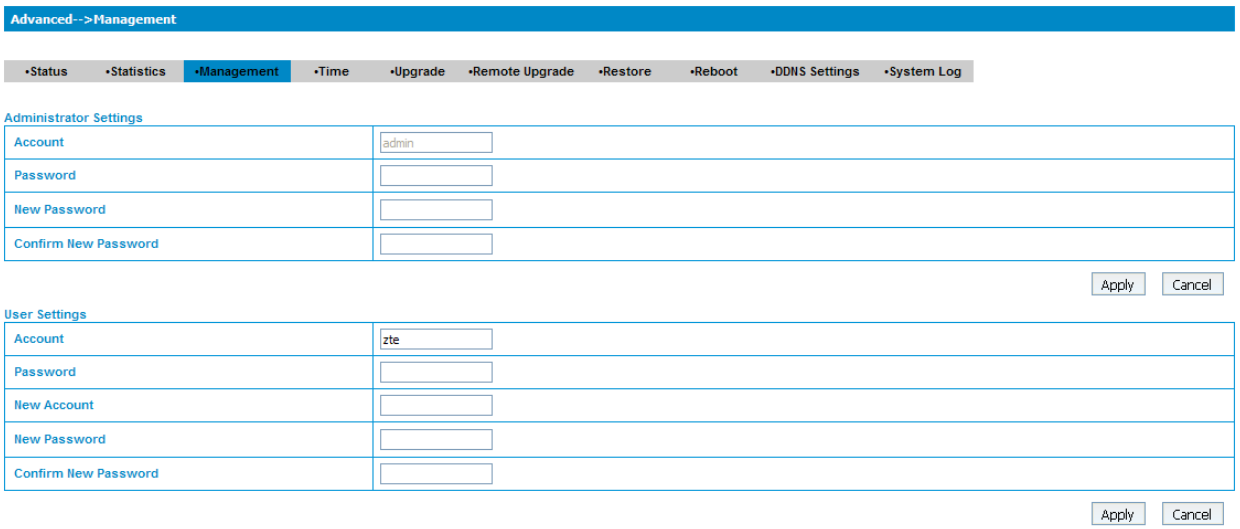
Statistics

Select **Advanced > Statistics**, the system statistics information is shown in the following figure:



Management

Select **Advanced > Management**, the administrator settings information is shown in the following figure:



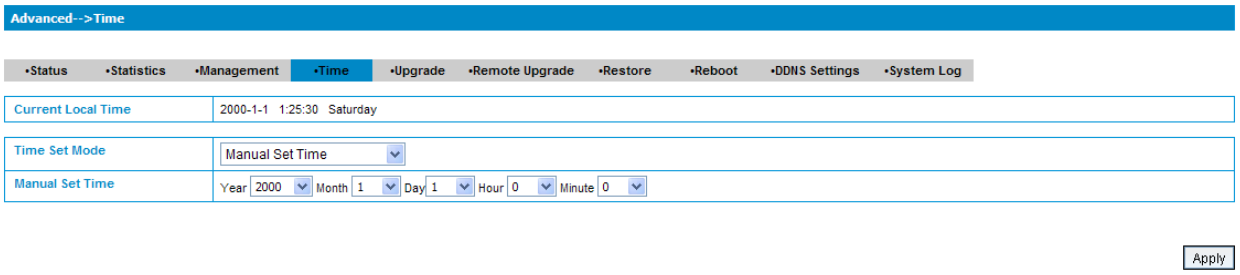
To set new account, type new account and password, and then click **Apply** to confirm your configuration, click **Cancel** to clear your configuration.

Notes:

If you change the Account or Password, please make sure that you can remember the new Account or Password.

Time

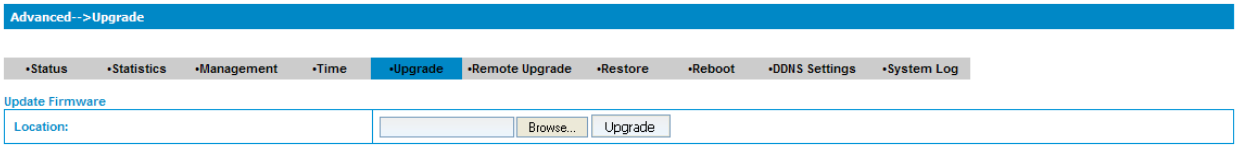
Select **Advanced > Time**, the time information is shown in the following figure:


Advanced-->Time
•Status •Statistics •Management •Time •Upgrade •Remote Upgrade •Restore •Reboot •DDNS Settings •System Log
Current Local Time
2000-1-1 1:25:30 Saturday
Time Set Mode
Manual Set Time
Manual Set Time
Year 2000 Month 1 Day 1 Hour 0 Minute 0
Apply

You can select **Manual Set time** or **SNTP Auto Synchronization,** and then click **Apply** to confirm your configuration**.**

Upgrade

Select **Advanced > Upgrade** to upgrade the software version of the router.



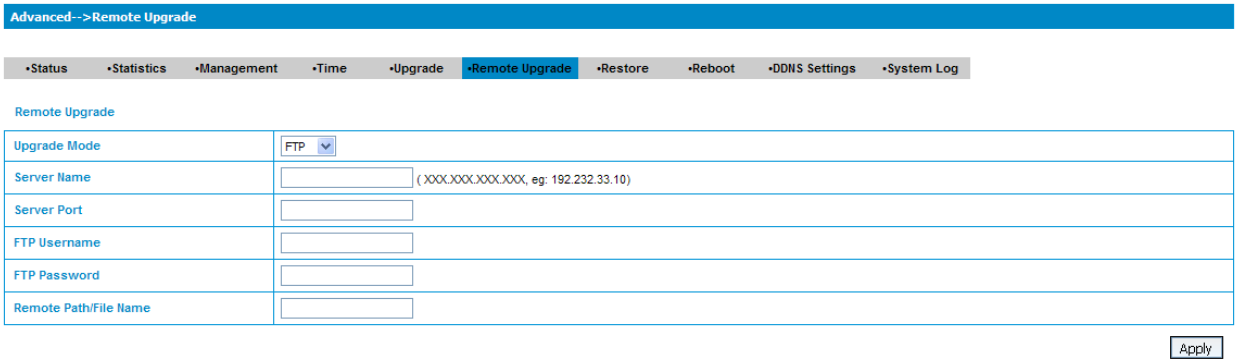
Click **Browse...** locate the latest software version, and then click **Upgrade**.

Notes:

Do not upgrade software unless necessary. Wrongly upgrade action may cause router malfunction or can not work.

Remote Upgrade

Select **Advanced > Remote Upgrade** to upgrade the software version of the router.



- **Upgrade mode**: There are two modes: **FTP** and **TFTP**.
- **Server Name**: Input the server name.
- **Server Port**: Input the server port.
- **FTP Username**: Input ftp user name.
- **FTP Password**: Input ftp password.
- **Remote Path/File Name**: Input remote path/file name.

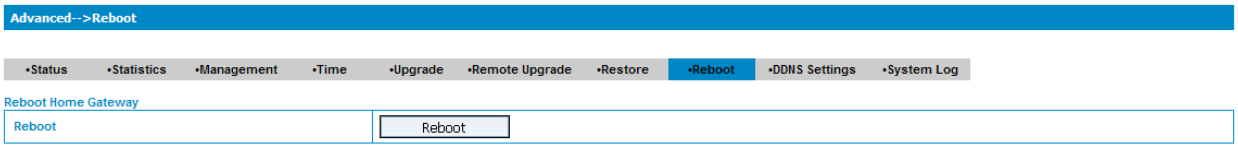
Click **Apply** to confirm your configuration**.**

Restore

Select **Advanced > Restore**, click **Restore** to set all the settings to their factory default values, and the device will restart automatically.

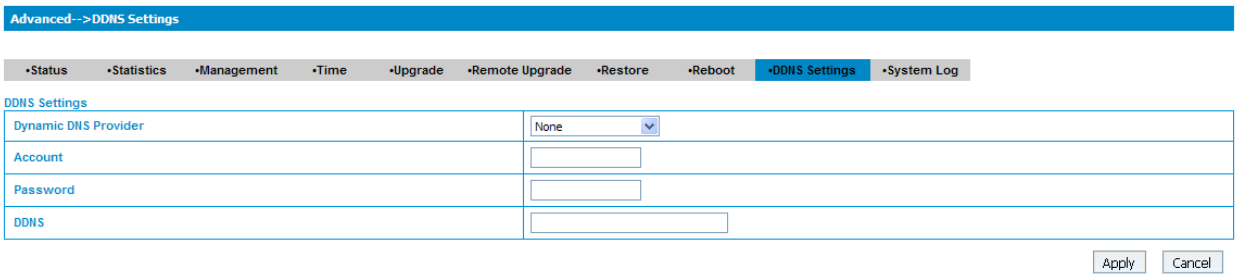
Reboot

Select **Advanced > Reboot**, click **Reboot** to restart the router.



DDNS Settings

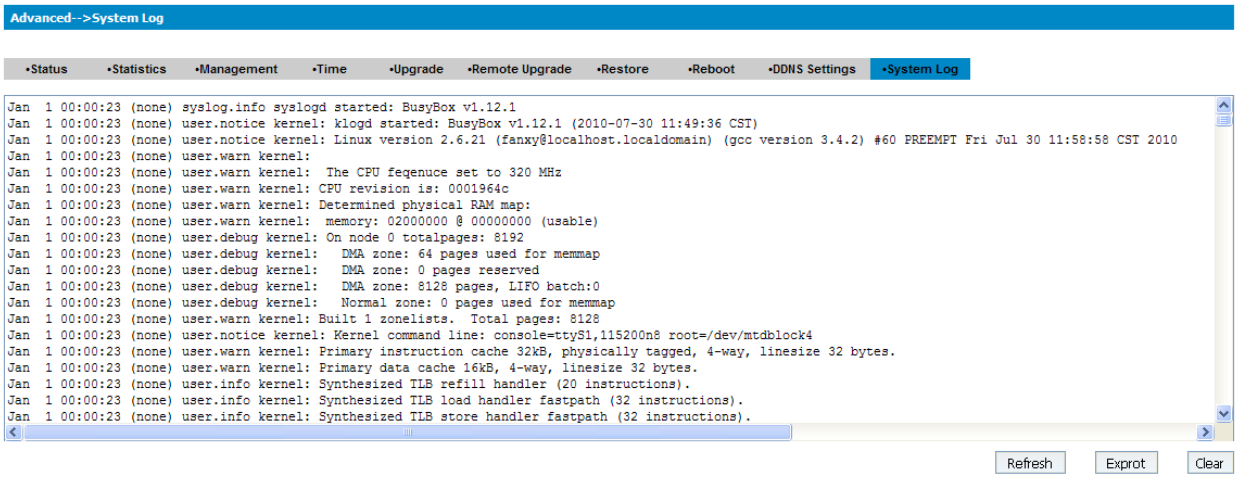
Select **Advanced > DDNS Settings**, the DDNS settings information is shown in the following figure:



Type **DDNS Settings** related parameters, and then click **Apply** to confirm your configuration.

System Log

Select **Advanced > System Log**, the system log is shown in the following figure:


Advanced-->System Log
•Status
•Statistics
•Management
•Time
•Upgrade
•Remote Upgrade
•Restore
•Reboot
•DDNS Settings
•System Log
Jan 1 00:00:23 (none) syslog.info syslogd started: BusyBox v1.12.1
Jan 1 00:00:23 (none) user.notice kernel: klogd started: BusyBox v1.12.1 (2010-07-30 11:49:36 CST)
Jan 1 00:00:23 (none) user.notice kernel: Linux version 2.6.21 (fanxy@localhost.localdomain) (gcc version 3.4.2) #60 PREEMPT Fri Jul 30 11:58:58 CST 2010
Jan 1 00:00:23 (none) user.warn kernel:
Jan 1 00:00:23 (none) user.warn kernel: The CPU feqenuce set to 320 MHz
Jan 1 00:00:23 (none) user.warn kernel: CPU revision is: 0001964c
Jan 1 00:00:23 (none) user.warn kernel: Determined physical RAM map:
Jan 1 00:00:23 (none) user.warn kernel: memory: 02000000 @ 00000000 (usable)
Jan 1 00:00:23 (none) user.debug kernel: On node 0 totalpages: 8192
Jan 1 00:00:23 (none) user.debug kernel: DMA zone: 64 pages used for memmap
Jan 1 00:00:23 (none) user.debug kernel: DMA zone: 0 pages reserved
Jan 1 00:00:23 (none) user.debug kernel: DMA zone: 8128 pages, LIFO batch:0
Jan 1 00:00:23 (none) user.debug kernel: Normal zone: 0 pages used for memmap
Jan 1 00:00:23 (none) user.warn kernel: Built 1 zonelists. Total pages: 8128
Jan 1 00:00:23 (none) user.notice kernel: Kernel command line: console=ttyS1,115200n8 root=/dev/mtdblock4
Jan 1 00:00:23 (none) user.warn kernel: Primary instruction cache 32kB, physically tagged, 4-way, linesize 32 bytes.
Jan 1 00:00:23 (none) user.warn kernel: Primary data cache 16kB, 4-way, linesize 32 bytes.
Jan 1 00:00:23 (none) user.info kernel: Synthesized TLB refill handler (20 instructions).
Jan 1 00:00:23 (none) user.info kernel: Synthesized TLB load handler fastpath (32 instructions).
Jan 1 00:00:23 (none) user.info kernel: Synthesized TLB store handler fastpath (32 instructions).
Refresh
Exprot
Clear

Click **Refresh** to update the system log. Click **Export** to save the system log as a file. Click **Clear** to clear the system log.

Logout

1. Select **Logout**, a pop-up windows will appear as shown in the following figure:

2. Click **OK** to log out.

Disconnecting from the Internet

Select **disconnect** from **WAN Connection** page, if you want to terminate your Internet connection.

Tips:

Turn off the router can also terminate Internet connection.

Chapter 4

Troubleshooting

1. Make sure that the router is turned on and all the cables are connected correctly.

2. Check the PPP, WLAN and POWER LEDs are all in normal state.

Internet Related Problems

Symptoms	Possible Problems/ Solutions
I cannot access the internet at all.	Please check your configuration settings. Please wait 1~ 2 minutes for the router to initialize. Check your service indicator LED.
The download or upload speeds are very slow.	The speed is dependent on signal strength. Check your signal strength and network type.

Appendix A

Technical Parameters

MF10 Fixed Wireless Adapter

- LED Display:
  - i. Power Indicator
  - ii. WLAN Indicator
  - iii. PPP Indicator
  - iv. WPS Indicator
- External Interface:
  - i. External Power Socket
  - ii. Data Interface (LAN)
- Power Adapter:

  Input: 100V~240V (AC), 50~60Hz

  Output: +5V (DC), 2A
- Dimensions (W×H×D): 93mm×70mm×25mm